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PROPIN- Caution-Proprietary Information Involved
ORCON- Dissemination and Extraction of Information

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Release to . . .

## 4 February 1986

MEMORANDUM FOR	: Deputy Director, In	itelligence Community Staff		
FROM:	Deputy Director for Planning and Policy			25 <b>X</b> 1
SUBJECT	IG(Space) Meeting-F	ebruary 5, 1986		
the OEOB. We and Mr. Neil A	understand that the ti rmstrong, Co-Chairmen	n rescheduled for 0930-1130 i me was changed so that Mr. W of the Presidential Commissi could attend (see Attachment	illiam Rogers on to	25 <b>X</b> 1
of six options IG(Space) members and others that to write a "Wh	for ensuring continui ers have been requeste t may be raised at the ite Paper" on the subj	tachment B, contains a brief ty of the US space launch pr ed to be prepared to discuss meeting. A working group w ect. We also understand tha ey to describe the impact on	ogram. The these options ill be formed t there has	25X1
(Talker) and a		SD and the NRO staff on an is the meeting (see Attachments thment E.		25 <b>X</b> 1
is just a meet problem, we do have been stro policy issues intends to be limited inform might have a " recovery proce	ing to start a work ef not expect any disagr ngly opposed to NASA p over the past few year as cooperative and nor ation on NASA's possib golden" opportunity to	standing of agency positions. Fort and acquaint the member reements at this time. As you consitions on a great many law res. DoD is sensitive to this a-confrontational as possible ple positions is at Attachmen oppromote commercial ELVs as a DoT staffers, but they have any at the meeting.	s with the u know, we inch-related history and Some tr. DoT part of the	25X1
	to you in preparing f	ebook of background informat for the meeting. You may be		
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SUBJECT: IG(Space) Meeting-February 5, 1986

- Newspaper clippings on the accident and its policy implications (Tabs B and C).
- NASA's 1986 Shuttle launch schedule (Tab N).
- DoD's space mission model and the NRP's Shuttle launch schedule and impacts (Tab 0).

A considerable amount of material is also included on the fifth orbiter issue which was considered by the SIG(Space) in January 1983 and led to NSDD 80. Although the material is a little dated, it does contain an extensive discussion on Shuttle launch capacity and contingencies (such as the recent explosion) that might arise.

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SUBJECT: IG(Space) Meeting-February 5, 1986

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## Executive Order Establishing Independent Presidential Commission to Investigate the Shuttle Explosion

- Independent group drawn mainly from scientific, educational and business circles.
  - -- Co-chaired by William Rogers and Neil Armstrong.
  - -- Established by Executive Order on 3 February.
- Purpose and scope:
  - -- Establish cause or causes of the accident.
  - -- Develop recommendations for corrective actions.
  - -- "Take a hard look at the accident, to make a calm and deliberate assessment of the facts and ways to avoid repetition."
- Approach and schedule
  - -- To report to President and NASA administrator within 120 days.
  - -- Replaces the board already convened by NASA.
  - -- Can call on NASA investigators, retain its own experts.

All Portions of this Paper are UNCLASSIFIED

Declassified in Part - Sanitized Copy Approved for Release 2013/10/24 : CIA-RDP92B00181R001501460002-2

#### NATIONAL SECURITY COUNCIL WASHINGTON, D.C. 20608

#### CONFIDENTIAL

#### MEMORANDUM FOR:

MR. DONALD P. GREGG Assistant to the Vice President for National Security Affairs

MR. NICHOLAS PLATT Executive Secretary Department of State

COLONEL DAVID R. BROWN **Executive Secretary** Department of Defense

MRS. HELEN ROBBINS Executive Asst to the Secretary Department of Commerce

MS. RUTH KNOUSE Director, Executive Secretariat Department of Transportation

MR. ALTON KEEL Associate Director for National Office of Management and Budget

CAPTAIN JOHN W. BITOFF Executive Assistant to the Chairman Joint Chiefs of Staff

MR. WILLIAM B. STAPLES **Executive Secretary** Arms Control & Disarmament Agency

JOHN P. McTAGUE Acting Director Office of Science & Technology Policy

MR. NORMAN TERRELL Associate Administrator for Policy National Aeronautics and Space Administration

MR. ALFRED H. KINGON Assistant to the President for Cabinet Affairs

MR. MARTIN SMITH Security and International Affairs Special Assistant to the President for Policy Development

25X1

Executive Secretary Central Intelligence Agency

IG(Space) Meeting - February 5, 1986 (U) SUBJECT:

As a result of the Shuttle tragedy of January 27, 1986, it is necessary to review the availability of capabilities and resources to ensure continuity of the U.S. space launch program. There are several options, or combinations of options, available that support continuity.

Option 1: Buy more Shuttles. This could cost in excess of \$2B a copy and may not make a vehicle available until 1991, at the earliest. This assumes an accelerated program with unlimited funding, and widespread Congressional support.

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#### CONFIDENTIAL

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Option 2: Accelerate the national aerospace plane. This too would require unlimited funding, maximum Congressional support, and crash efforts by industry. Even with these efforts, it is not certain that it could be made operational any earlier than present program schedules allow.

Option 3: Buy more Titan 34Ds. At the present rate of purchase, the earliest availability is expected in 1988. Accelerated purchase of Titan 34D vehicles and in larger quantities could assure the launch of larger payloads. Exact numbers of vehicles required and their costs are not known.

Option 4: Use more Titan IIs. Present Congressional direction only allows consideration for use of 13 existing Titan IIs. Since there are considerably more of these vehicles available than 13, and their use is the subject of a difference of opinion, a reconciliation and a validation of the requirement for their use is necessary. Like the option to buy more Titan 34Ds, a close examination of all costs associated with Titan II use and conversion for space launch use is also necessary.

Option 5: Buy more Atlas/Centaur. The Atlas/Centaur production line is currently open and vehicles are being produced at a specified rate. Additional funds could be justified to buy more vehicles to launch necessary payloads. However, the Atlas/Centaur is a small missile and is only useful for certain payloads. Therefore, a detailed mission model, a program funding profile and a commitment from all who wish to launch payloads must be sought.

Option 6: Use civil and commercial launch vehicles. This is a prime opportunity for foreign and domestic commercial missile production companies and entrepreneurs to consider filling the breach created by the loss of a Shuttle. This requires establishment of a close working relationship between government and industry to consider making launch ranges available, expedite government licensing and federally subsidize insurance programs to assure commercial systems availability. (C)

The thoughts in these options are not complete nor have all complex facets of bringing any one or a combination of them to fruition been explored. In addition, there may be options that have not been mentioned but deserve evaluation. The members of the IG(Space) are therefore requested to attend the meeting prepared to discuss these options and any others you deem appropriate. Once discussion is complete it is the tentative plan to designate selected members of the IG(Space) to write a "White Paper" on maintaining the continuity of the U.S. space launch program. The paper will then be used to develop a new space strategy and policy statement. (C)

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3

A meeting of the IG(Space) will be held on February 5, 1986, from 2:00-4:00 p.m., in Room 208 of the OEOB. Attendance will be limited to principal plus one. Please notify Jerry May of the NSC Staff (395-5022) of the names of your representatives by February 4, 1986. (U)

William F. Martin Executive Secretary

Attachment IG(Space) Membership List

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#### CHAIRMAN: DONALD R. FORTIER

#### Members

AMBASSADOR JOHN D. NEGROPONTE Assistant Secretary for Oceans and International Environmental and Scientific Affairs Department of State

DR. WILLIAM R. GRAHAM
Deputy Administrator
National Aeronautics and Space Administration

MR. CRAIG ALDERMAN
Deputy Under Secretary for Policy
Department of Defense

MS. MADELINE JOHNSON
Director, Office of Commercial Space Transportation
Department of Transportation

DR. ANTHONY CALIO Administrator of the National Oceanic and Atmospheric Administration Department of Commerce

VICE ADMIRAL E. A. BURKHALTER Director, Intelligence Community Staff Central Intelligence Agency

MAJOR GENERAL THOMAS C. BRANDT Director of Joint Planning & Staffing for Space Office of the Joint Chiefs of Staff

LOUIS V. NOSENZO Acting Assistant Director for Strategic Programs Arms Control and Disarmament Agency

#### Observers

DANIEL TAFT
National Security and International Affairs
Special Studies
Office of Management and Budget

COLONEL MAURICE A. ROESCH, III
Assistant Director for Defense Technology
and Systems
Office of Science and Technology Policy

MR. ALFRED H. KINGON Assistant to the President for Cabinet Affairs

MARTIN SMITH
Special Assistant to the President for Policy
Development

COLONEL SAMUEL WATSON
Deputy Assistant to the Vice President for
National Security Affairs

Executive Secretary: COLONEL GERALD M. MAY
Director of Space Programs, NSC Staff

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# TALKER FOR THE 5 FEBRUARY 1986 IG (SPACE) MEETING

- The NSC paper calling the IG (Space) meeting (TAB A) lists a series of options to be discussed by the IG principals and implies that following this discussion a "white paper" will be prepared summarizing the recommendations of the group.
- Decisions by the IG principals must await the findings and recommendations of the operational agencies--DoD and NASA. Both the Air Force and NASA are presently reviewing these and other options. The policy options derived from these programmatic alternatives should be the focus of the interagency group.
- The IG should focus its attention on two basic issues:
  - -- What actions provide the best strategy for recovering from the near-term reduction in national space launch capability?
  - -- What changes in national policies provide the best strategy to prevent the recurrence of a similar interruption of our national space launch capability?
- It is also important to separate the many options identified in the NSC paper into those that can assist in the recovery of the national space launch capability in the near-term and those that are more long range in nature and cannot directly contribute to recovering from the current problem. Four distinct timeframes can be postulated:
  - -- In the near-term none of the options can have an appreciable effect. This period is characterized by accommodation, that is reprioritizing and possibly reallocating existing launch resources. No additional launch system can be brought to bear within this timeframe. This period includes roughly the next two years. The only launch assets will be the three orbiter STS fleet and the currently available ELVs.
  - -- The mid-term transition period begins with the first availability of additional launch assets. This could be either ELVs or replacement orbiters. This period is characterized by recovery, i.e., attempting to meet the real time requirements while trying to work off the backlog of mission that may not be accommodated in the near-term. This period could last from a few to several years.

- -- The mid-term equilibrium period begins as the combination of available launch assets overcomes the backlog of missions and is only required to launch each year's missions. When this condition is reached depends on the policies defined in the near-term, the extent of the STS grounding and the resulting backlog, the fiscal constraints imposed on the recovery, the future success of the individual launch programs.
- -- The far-term period includes the application of new technologies and/or the development and delivery of new systems. Programs such as a second generation Shuttle or a transatmospheric vehicle fall in this timeframe. Such programs represent major new investments and require leadtimes on the order of a decade to develop. None of these far-term systems aid in the recovery from the current operational impacts.
- In addressing these issues the IG should carefully consider both the nation's commitment to a strong manned spaceflight program and its need for a balanced, rebust space launch capability. Consideration should be given to assurring a balanced national space launch capability (i.e., manned and unmanned) while reaffirming our commitment to the manned space program. Defense must work closely with NASA to achieve both these critical objectives.
- The IG (Space) should impanel a working group to review the NASA and Air Force generated data and formulate a selection of policy options and recommendations for review by the IG principals. DoD and NASA should co-chair this working group.
- 4 February 1986

# BACHGROUND PAPEK ON THE ENTERGATIONS OF THE LAUGH OF CHALLENGEK

#### DE DECIMO

Last Tuesday's in-flight explosion of the Challenger reduced the FTS fleet from four to three orbiters. This accident will go und the remainder of the STS fleet until the cause in hower an expressive actions have been taken. This grounding comes at like when NASA was attempting to increase the number of STS flights toward the goal of 24 per year. The result will be a backlog of missions that will have to be worked off along with the regularly scheduled flights. The STS is likely to be unded for 6-12 months; this could cause a backlog of 7-14 at s.os. Next year NASA planned 20 STS flights. With only three do rears of the originally planned orbiters available, it will be difficult for NASA to recover from this backlog.

several options exist that aid in recovering: eliminate low problems in the missions, off-load simple launch missions onto exclude launch vehicles, build additional orbiters. The new return (1-2 years) is likely to include eliminating lower problems in the DoD initiated a Complementary Expandable in the Vehicle (CELV) program last year to augment the STS in mining selected, high priority national security missions; the first availability of this vehicle is scheduled for October of 19:8. Only ten vehicles are currently being purchased. The DoD has also proposed to convert 13 Titan II ICEMs to space launch be sizers for selected, small payloads. These too are projected to be available in the early 1988 timeframe.

The DoD planned to launch 14 ELVs this calendar year. While Doi may review its launch priorities and delay some of thee planned launches to better hedge against extended STS fleet granding, few-to-none of the existing ELVs could be made available to assist in working off the backlog of requirements can said by the interruption of STS operations.

The existing U.S. ELV production lines have been closed donn. At las vehicles are still being assembled to meet the last of the Government's orders. Several Delta vehicles could be as subled from the last residual parts of their production runs. Si so production capability is in the process of being recommendation. However, none of these vehicles could be swillable in significant quantities until the late 1987 or early last timeframe.

MASA was directed to fund a structual spares program when it i decision was made to not produce a fifth orbiter. This program provided major structural assemblies such as the crew or gartment, the mid-body, the wings, etc. These components or ild be assembled into a replacement orbiter in about three-four justs.

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There are basically two issues that must be considered. The first addresses the options for recovering from the near-term Ir m if operational space launch capability. The second ad brasses the policies that best prevent a recurrence of such an is arruption in national space launch capability.

distinct timeframes can be defined. The first, the near-term, or sers that period before any significant additional capability can be brought to bear. The STS fleet may be grounded for a good portion of this period and a replacement orbiter could not be made available. In addition, no significant number of ELVs could be made available. The near-term can be thought of as easily the met two years (CY 86 and CY 87).

The mid-term transition period begins as additional launch as at become available, e.g., a replacement orbiter or significant quantities of ELVs to assist in recovering from the be filog of missions. This period could last from three to five years (CY 88-CY 92).

The mid-term equilibrium period begins as the backlog is we ked off and the combination of space launch vehicles becomes equal to the projected demand and those new missions that will in witably materialize. This period could extend indefinitely into the next generation of launch vehicle (CY 93-CY 95 or the mask the year 2000).

The <u>far-term</u> period is defined as the timeframe in which so in a generation launch systems begin to be available. This co il include a second generation Shuttle, upgraded ELVs, or a transatmospheric vehicle. This period is likely to begin so where between 1995 and 2000.

## AT IT FIGURAL FACTORS (Not Prioritized)

Budget. The current fiscal constraints imposed by the Gr ma/Rudman/Hollings legislation will make recovery strategies di ficult and painful. While there is a possibility that the ca astrophic nature of this accident will elicit relief from such bu get pressures, it is more likely that the funds will have to be taken from other programs. For NASA this could be

preticularly hard on the science programs and the space station of firt. For DoD it will force an additional strain between the ligited space budget and other budget accounts (e.g., ships, p) was, operations, logistics, etc.) since there will not be sticient funds within the space budget to reallocate to at titional space launch systems.

Space Commercialization. Several years ago the President si med an NSDD directing the U.S. Government to encourage and foster the development of a commercial ELV industry in this or mitry. The Department of Transportation was assigned the lead rele in implementing this policy. They have had very little st mess since commercial ELVs would find themselves in direct or metition with the NASA shuttle. The Challenger accident may on me a renewal of the attempts to establish a commerical ELV Is Bustry that could augment the Government's space launch os pability and contribute to reducing the impacts of STS fleet grainding in the future at little or no direct cost to the Go rernment. The critical policy decisions necessary for such an in histry to develop are (1) for the government to assure the private sector that they will not compete with it for the commercial satellite market and (2) for the Government to agree to buy selected launch services commercially from the private se for. This is in direct conflict with NASA's previous Shuttle me ilcies.

On-Going Studies. Several on-going studies may have an in Pluance on the pending policy debates although the recent ac sident may invalidate some of their conclusions and proposals. On 1 is the NSSD directed joint DoD/NASA study of future launch needs. Another is the Presidential Commission on Space. The last is the recent interest in developing a transatmospheric vehicle that could take off, fly, and land like an aircraft but would be cause of achieving earth orbit (essentially of "space plane").

Assured Access to Space. The national security community has been pressing for a more diversified national space launch posture since the signing of the Defense Space Launch Strategy by the Secretary of Defense in 1984. The lost of Challenger and the resulting interruption of space launch operations highlights the unserlying basis for this capability. While MLVs are certainly no: immune to failures, the diversity of launch vehicels and their on-going production capability provide a more robust launch see there.

Several specific facts relating to the loss of Challenger ar: also pertihent. Challenger was one of the two Centaur or ifigured orbiters as well as one of the two lighter weight or iters. In addition, one of the two sets of airborne support at items required by the IUS uppper stage was also lost with the Ch ilenger.

pop Preemption Rights on the STS. While national policy at the that national security missions will have priority on the ST: and could preempt other scheduled missions to meet Defense no do, the policy could be viewed as valid only under normal op rating conditions. The current situation has significant in act on the overall STS program and Defense should not expect to routinely exercise its preemption rights.

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potentially Affected Policies. Several current national speci policies may be affected by the loss of Challenger and its effects on the national space launch capability and the STS program. Examples include the decison to not produce a fifth or iter and to pursue a structural spares program, the DoD/MASA agreement that the DoD guarantee using on third of the available ST (mapacity, the use of the STS as the primary U.S. space launch we file. Assessments of required changes to these policies is program at this time.

Summary. At this time NASA does not have conclusive ev dince of the failure that destroyed Cahllenger; no reasonable es inate can be made of the length of time the remaining STS fle: will be grounded. Both NASA and the Air Force are reliaving the planned ELV launches and the priorities of those pa loads. Additionally, both are assessing to what extent ELVs ca be made available to help reduce the pending backlog of la mines. It will be several weeks before any preliminary atting can be finalized.

The NSC has requested that Defense be prepared to discuss the mean-term impacts to your programs as a result of the Ch lienger loss and the interruption of STS operations. The Air Po colds currently investigating these and other issues but we call provide a preliminary assessment covering the next two years. The charts that I would proposed to use are attached.

4 wrugry 1986

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#### Proposed Talking Points

- Shuttle explosion was a terrible tragedy for the individuals and for the country's space programs. It will have profound effects on all of us, but if we all work together we can come up with recovery plans in the best interests of the nation.
- We agree that the IG(Space) should address the <u>policy</u> issues associated with the recovery process. DoD and NASA should co-chair the Working Group. We will participate as a member of the Working group and provide the necessary inputs to the process as soon as they are available.
- We're not in a position to comment on the specific options at this time because the necessary technical input data is not yet available. However, it appears to us that decisions that would affect the far-term--such as acceleration of the national aerospace plane--can be deferred until we have sorted out the policies that will get us through the next ten years or so.

All Portions of this Paper are UNCLASSIFIED

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#### NASA Hardware Alternatives

#### Likely to be Proposed

- Build fifth Shuttle orbiter.
  - -- Cost: approximately \$2 billion.
  - -- Schedule: available not earlier than 1988 (More likely 90 or 91).
- Start on Shuttle II.
  - -- Cost: unknown.
  - -- Schedule: 1997 IOC.

#### Not Likely to be Proposed

- Use ELVs (post 1988)
  - o Commercial
  - o DoD
  - NASA procured and launched.

#### NASA Concerns

- Budgetary Impact.
  - o Depends on whether or not NASA gets a budget increase to cover the recovery costs.
- Program Impact.
  - o Bow wave of launch delays will occur. Unlikely to be worked off until at least 1990.

#### NASA Goal

- To prepare a report on the alternatives for President via SIG(Space).
  - o Would like to submit a supplemental budget request in next 3-4 months.

#### IG(Space) Meeting on Space-Launch after Shuttle Failure

- IG(Space) meeting called for Wednesday, 5 February, to review options and plan follow-up studies leading to a new strategy and policy statement.
- D/ICS will attend as DCI representative. DoD will be represented by Craig Alderman, Deputy Under Secretary for Policy.
- Invitation to the meeting includes six options relating to purchase of more Shuttles or expanded use of ELVs.
- ICS working closely with DoD staff in preparing for meeting. Key policy issues are:
  - How to set priorities for the limited ELV and Shuttle resources in next two years. (DoD has Shuttle use priority but may wish to establish a mechanism for equitable sharing from national perspective.)
  - o Presidential guidance on how to address budgetary impact of recovery options.
  - o Decisions on the type of mixed launch fleet we should have in the 1990s.

#### NATIONAL SECURITY COUNCIL WASHINGTON, D.C. 20608

#### CONFIDENTIAL

#### MEMORANDUM FOR:

MR. DONALD P. GREGG Assistant to the Vice President for National Security Affairs

MR. NICHOLAS PLATT **Executive Secretary** Department of State

COLONEL DAVID R. BROWN **Executive Secretary** Department of Defense

MRS. HELEN ROBBINS Executive Asst to the Secretary Department of Commerce

MS. RUTH KNOUSE Director, Executive Secretariat Department of Transportation

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JOHN P. MCTAGUE Acting Director Office of Science & Technology Policy

MR. NORMAN TERRELL Associate Administrator for Policy National Aeronautics and Space Administration

MR. ALFRED H. KINGON Assistant to the President for Cabinet Affairs

MR. MARTIN SMITH Security and International Affairs Special Assistant to the President for Policy Development

Executive Secretary Central Intelligence Agency

IG(Space) Meeting - February 5, 1986 (U) SUBJECT:

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William F. Martin Executive Secretary

Attachment
IG(Space) Membership List

CONFIDENTIAL

CHAIRMAN: DONALD R. FORTIER

#### Members

AMBASSADOR JOHN D. NEGROPONTE
Assistant Secretary for Oceans and International
Environmental and Scientific Affairs
Department of State

DR. WILLIAM R. GRAHAM
Deputy Administrator
National Aeronautics and Space Administration

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Deputy Under Secretary for Policy
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and Atmospheric Administration
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VICE ADMIRAL E. A. BURKHALTER Director, Intelligence Community Staff Central Intelligence Agency

MAJOR GENERAL THOMAS C. BRANDT Director of Joint Planning & Staffing for Space Office of the Joint Chiefs of Staff

LOUIS V. NOSENZO
Acting Assistant Director for Strategic Programs
Arms Control and Disarmament Agency

#### Observers

DANIEL TAFT
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Development

COLONEL SAMUEL WATSON
Deputy Assistant to the Vice President for
National Security Affairs

Executive Secretary: COLONEL GERALD M. MAY
Director of Space Programs, NSC Staff

WORKING PAPER

## IG(Space) Meeting (3/6/86)

<ul> <li>Draft of report became available on 3/5/86 at 1500 h</li> </ul>	nrs. (lau	C)
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- Report is much better than previous version in terms of balance and completeness. Some of the backup data has been removed.
- Lays out three strategy alternatives.
  - A Mixed Fleet

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operation

CELV.

- B Shuttle-intensive
- C ELV-intensive
- Gives rationale for preferring strategy A at cost (NASA plus DoD) of about \$6 Billion.
- Contains a short treatment of policy and policy implementation issues. Key item is statement that Shuttle will not compete with private sector ELVs for commercial and foreign launch business.
- DoD strategy contained in this report has been approved by Weinberger.
  - Latham and Aldridge briefed Weinberger on Monday, 3 March 1986. DVF briefing charts are at Tab A. This briefing also given to bn 4 March 1986. Aldridge 25X1 presumably has called memanon on the content of the briefing. This strategy is also planned to be presented at the IG(space) meeting. Secret briefing charts are at Tab B. of the DoD strategy are as follows: Key elements 25X1 Launch launched on CELV starting in 0 facilities at VAFB modified for CELV launch. VAFB remains in launched on Shuttle from VAFB.

Enhanced

launched on

25X1

25X1

25X1

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launched on Shuttle.

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1		20/(1
	remains on ELVs.	
	is launched with Titan II.	
	but is launched from KSC.	
	share of the DoD strategy is in FY 86 and none	
	has had private discussions with a number of individuals who	:25X
- L ques	tion the baseline strategy:	2070
	o Most (privately) question the priority given to the VAFB Shuttle capability. Closing down the facility	
	would save	25 <b>X</b> 1
	vice the planned from VAFB.  (DoD is probably ready to reluctantly offer this as an	25X1
	offset if forced to do so.,	
	o Many seriously question the need for a replacement orbiter of the current design. They believe that all	25 <b>X</b> 1
	launch needs in the next 10 years of so can be med	
	that a large investment in the Shuttle will take money away from efforts needed to define the next generation	
	space launch systems.	
- Pro	obable issues to be discussed at the meeting.	
	Adequacy of justification for replacement orbiter and lack of alternatives that realistically address budget constraints (OMB).	
	Adequacy of policy discussion and general clarity of presentation. Commerce is working on their own revision to the current draft. (Commerce).	
	Schedule (NASA and NSC Staff).	
	Process for completing report (NSC Staff).	
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- Tall	cing Point Themes.
	Need credible justification of strategy for Congress and the President.
	Need to ensure compatibility with probable findings of Presidential Commission.  25X1
	Still believe that we will need at least a few more weeks to get the package into shape.

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## List of Tabs

Tab A	National Security Shuttle Recovery/Reconstitution Strategy (TSB Briefing Charts)
Tab B	National Security Shuttle Recovery/Reconstitution Strategy (SECRET Briefing Charts for IG[Space] Meeting)
Tab C	IG(Space) Draft Report, Recommendations for the US Space Launch Program, 5 March 1986. NOTE: Third page contains list of Working Group Members
Tab D	Memo from D/ICS to Mr. Donald Fortier, 21 February 1986, Subject: US Space Launch Program
Tab E	Memo from McDaniel to IG(Space) members, dated 6 February 1986, Subject: IG(Space) Actions. NOTE: Last page contains list of IG(Space) members

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# NATIONAL SECURITY SHUTTLE RECOVERY/RECONSTITUTION STRATEGY

**MARCH 1986** 

TOP SECRET/BYEMAN

	86	87	88	88	8	क	8	8	3
TOTAL PROJECTED MISSIONS	5	\$	<b>N</b>	2	22	2	2	7	2
DOD PROJECTED MISSIONS	•	•	<b>O</b>	2	<b>O</b>	2	\$	=	=
CONSERVATIVE CAPACITY	•	•	5	ঠ	吞	. <b>2</b>	8	<b>N</b>	8
BACKLOG DEMAND	9	-27	-36	7	7	7	-38	58	-28
DOD OFF-LOAD	0	0	0	ŋ	7	7	P	ŗ	P
C AND F LOSS.	•	0	•	0	ဗု	ŋ	7	ŋ	Ÿ

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### UNCLASSIFIED

# NATIONAL SECURITY OBJECTIVE AND STRATEGY

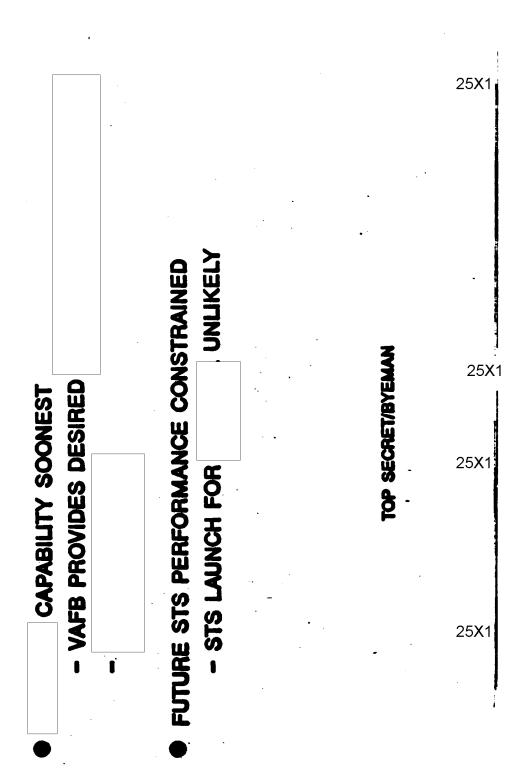
### **OBJECTIVE**

## ENSURE A MORE CAPABLE LAUNCH POSTURE THAN BEFORE CHALLENGER FAILURE

### STRATEGY

- MAINTAIN DOD COMMITMENT TO STS
- DEVELOP DUAL COAST STS AND ELV LAUNCH FACILITIES SELECTIVELY OFFLOAD MISSIONS TO ELVS
- ACHIEVE SATELLITE DUAL COMPATIBILITY WHERE PRACTICAL

# ONE YEAR MINIMUM STS DOWNTIME TOP SECRET/BYEMAN



## TOP SECRET/BYEMAN

# NATIONAL SECURITY APPROACH

MAINTAIN STS OPERATIONS FROM KSC AND VAFB ADD CELY CAPABILITY AT VAFB -- 10C FY 89 **DUAL LAUNCH FACILITIES** 

SATELLITES AND BOOSTERS - MAJOR CONSIDERATIONS - DSP USES BOTH CELV/STS STARTING AT SAT 15 REMAINS ON STS FROM VAFB SHIFTS TO CELV FROM VAFB MILSTAR ON CELV FROM VEHICLE - DUAL COMPATIBLE STS COMPATIBLE

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- GPS ON STS TO ACHIEVE FULL CONSTELLATION

-- REPLENISHMENT VIA ELV AT SAT 17

25X1

## TOP SECRET/BYEMAN

# NEED FOR STS AT VANDENBERG

ELIMINATES DEPENDENCY ON SINGLE LAUNCH SYSTEM

NO COST SAVINGS FROM VANDENBERG CLOSURE

CELY COMPATIBILITY RECOVERY

SDI/ SPACE STATION

KENNEDY SPACE CENTER BACKED UP

- THIRD LAUNCH PAD

ADDITIONAL PROCESSING FACILITIES

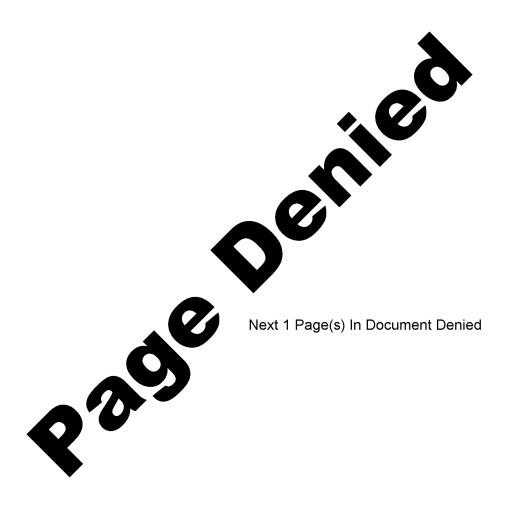
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GREATER SECURITY

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### UNCLASSIFIED

### LAUNCH RECOVERY PLAN (DELTA DOLLARS IN MILLIONS)

		FY 1986	FY87-91	<b>TOTAL</b>
•	SATELLITE MODIFICATION AND INTEGRATION	169	458	627
lacktriangle	BOOSTERS	324	2,485	2,809
•	VANDENBERG CELV PAD MODIFICATION	22	219	241
•	VANDENBERG AND KENNEDY O&M	35	291	326
•	STS RIDE OFFSETS	, . •	(1,321)	(1,321)
	TOTAL	550	2,132	2,682

### UNCI ASSIFIED

# **IENDED ACTIONS**

REVIEW WITH NASA AND DCI

NFORM SENIOR INTERAGENCY GROUP (SPACE)

PREPARE JOINT SUPPLEMENTAL

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### SECRET

## TLE RECOVERY/RECONSTITUTION NATIONAL SECURITY STRATEGY

· MARCH 1986

SECRET

## STS BACKLOG

TOTAL PROJECTED MISSIONS DOD PROJECTED MISSIONS	8 5 4	6 6	88 × 0	22 6	8 4 0	8 4 6	28 2 6	8 2 =	\$   \$ =	
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### **UNCLASSIFIED**

### NATIONAL SECURITY OBJECTIVE AND STRATEGY

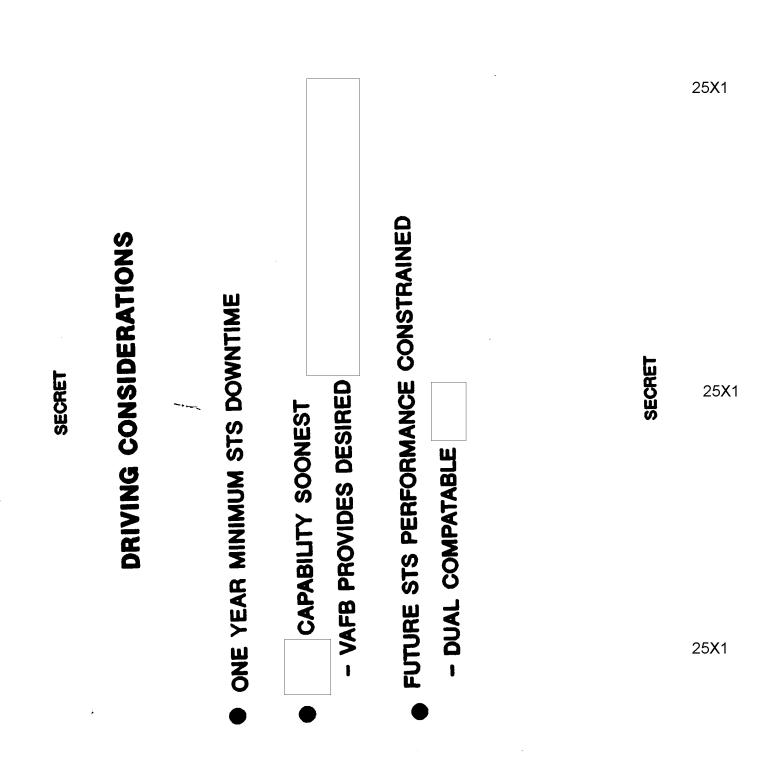
### **OBJECTIVE**

### ENSURE A MORE CAPABLE LAUNCH POSTURE THAN BEFORE CHALLENGER FAILURE

### **STRATEGY**

- MAINTAIN DOD COMMITMENT TO STS
- SELECTIVELY OFFLOAD MISSIONS TO ELVs
- DEVELOP DUAL COAST STS AND ELV LAUNCH FACILITIES
- ACHIEVE SATELLITE DUAL COMPATIBILITY WHERE PRACTICAL

### **UNCLASSIFIED**



# NATIONAL SECURITY APPROACH

DUAL LAUNCH FACILITIES

MAINTAIN STS OPERATIONS FROM KSC AND VAFB

ADD CELV CAPABILITY AT VAFB --- 10C FY 89

SATELLITES AND BOOSTERS - MAJOR CONSIDERATIONS

REMAIN ON STS FROM VAFB

- SOME

SHIFT TO CELV FROM STS/VAFB AND SOME

- STS COMPATIBLE

MILSTAR ON CELV FROM VEHICLE

-- DUAL COMPATIBLE

DSP USES BOTH CELV/STS STARTING AT SAT 15

GPS ON STS TO ACHIEVE FULL CONSTELLATION

-- REPLENISHMENT VIA ELV AT SAT

SECRET

25X1

# **NEED FOR STS AT VANDENBERG**

ELIMINATES DEPENDENCY ON SINGLE LAUNCH SYSTEM

NO COST SAVINGS FROM VANDENBERG CLOSURE CELV COMPATIBILITY

RECOVERY

SDI/ SPACE STATION

KENNEDY SPACE CENTER BACKED UP

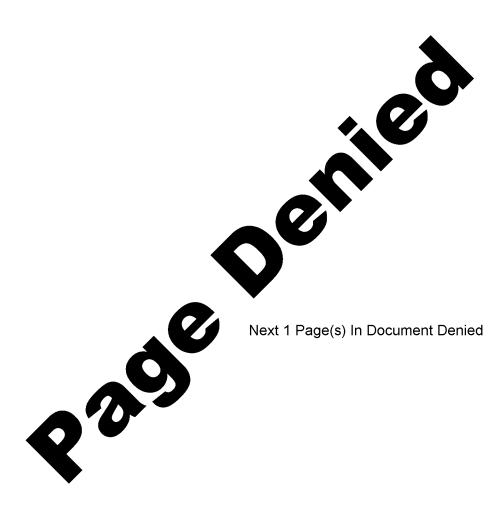
THIRD LAUNCH PAD

ADDITIONAL PROCESSING FACILITIES

GREATER SECURITY

25X1

25X1



### UNCLASSIFIED

# LAUNCH RECOVERY PLAN

# (DELTA DOLLARS IN MILLIONS)

		FY 1986	FY 1986 FY87-91	TOTAL
•	SATELLITE MODIFICATION			
	AND INTEGRATION	169	458	627
•	BOOSTERS	324	2,485	2,809
•	VANDENBERG CELV PAD MODIFICATION	8	279	241
•	VANDENBERG AND		}	<b>:</b> 
	KENNEDY O&M	35	291	326
	STS RIDE OFFSETS		(1,321)	(1,321)
	TOTAL	550	550 2.132	2683

### UNCLASSIFIED

# RECOMMENDED ACTIONS

REVIEW WITH NASA

INFORM SENIOR INTERAGENCY GROUP (SPACE)

PREPARE JOINT SUPPLEMENTAL

CO-SPONSOR WITH NASA TO THE WHITE HOUSE

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Executive Secretary
28 Jan 86

### NATIONAL SECURITY COUNCIL WASHINGTON, D.C. 20506

February 26, 1986

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### MEMORANDUM FOR:

MR. DONALD P. GREGG Assistant to the Vice President for National Security Affairs

MR. NICHOLAS PLATT Executive Secretary Department of State

COLONEL DAVID R. BROWN Executive Secretary Department of Defense

MRS. HELEN ROBBINS Executive Asst to the Secretary Department of Commerce

MS. RUTH KNOUSE Director, Executive Secretariat Department of Transportation

MR. ALTON KEEL Associate Director for National Office of Management and Budget for Policy Development

CAPTAIN JOHN W. BITOFF Executive Assistant to the Chairman Joint Chiefs of Staff

MR. WILLIAM B. STAPLES Executive Secretary Arms Control & Disarmament Agency

MR. JOHN P. MCTAGUE Acting Director Office of Science & Technology Policy

MR. NORMAN TERRELL Associate Administrator for Policy National Aeronautics and Space Administration

MR. ALFRED H. KINGON Assistant to the President for Cabinet Affairs

MR. MICHAEL DRIGGS Security and International Affairs Special Assistant to the President

STAT

Executive Secretary Central Intelligence Agency

IG(Space) Meeting - March 4, 1986 SUBJECT:

The next IG(Space) meeting will be held on Tuesday, March 4, 1986, 3:00-4:00 p.m. in Room 208 of the OEOB. Principals plus one are invited. In order to assure clearance into the OEOB, please inform Col Jerry May (395-5022) of the names of your representatives by COB March 3, 1986.

Executive Secretary

Attachment IG(Space) Membership List

### INTERAGENCY GROUP FOR SPACE MEMBERSHIP

CHAIRMAN: DONALD R. FORTIER

### Members

AMBASSADOR JOHN D. NEGROPONTE Assistant Secretary for Oceans and International Environmental and Scientific Affairs Department of State

DR. WILLIAM R. GRAHAM
Deputy Administrator
National Aeronautics and Space Administration

MR. CRAIG ALDERMAN Deputy Under Secretary for Policy Department of Defense

MS. MADELINE JOHNSON Director, Office of Commercial Space Transportation Department of Transportation

DR. ANTHONY CALIO Administrator of the National Oceanic and Atmospheric Administration Department of Commerce

VICE ADMIRAL E. A. BURKHALTER Director, Intelligence Community Staff Central Intelligence Agency

BRIGADIER GENERAL JOEL M. McKEAN
Deputy Director for Force Development & Strategic Plan
Office of the Joint Chiefs of Staff

LOUIS V. NOSENZO Deputy Assistant Director for Strategic Programs Arms Control and Disarmament Agency

### Observers

DANIEL TAFT
National Security and International Affairs
Special Studies
Office of Management and Budget

COLONEL MAURICE A. ROESCH, III
Assistant Director for Defense Technology
and Systems
Office of Science and Technology Policy

MR. ALFRED H. KINGON Assistant to the President for Cabinet Affairs

MICHAEL A. DRIGGS Special Assistant to the President for Policy Development

COLONEL SAMUEL WATSON
Deputy Assistant to the Vice President for
National Security Affairs

Executive Secretary: COLONEL GERALD M. MAY
Director of Space Programs, NSC Staff